ALL9600T ALL9600R
User's Manual

One-Port AV Transmitter : ALL9600T

One-Port AV Receiver : ALL9600R

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Introduction

ALL9600 is a broadcast system to transmit AV signal (Audio + VGA) over Cat5/5e/6 cable, it can reach the distance up to 300 meters and by stacking more system Transceivers, the whole system can extend AV signal up to 900 meters.

You can broadcast the AV signal from PC, KVM switch, matrix AV switcher, or use optional TV Box or converter to connect DVD or other multimedia output devices. The video quality can be adjusted very easily from the FOCUS and GAIN Control in the Receiver. Take the advantage of UTP cable, ALL9600 can simplify the installation, extend the AV signal, and centralize the multimedia server.

For single port unit, you can fix the unit very easily through its magnetic pad and optional metal plate; for multiple port units, you can use the rack mounting kit to lock your device in an industrial cabinet. ALL9600 is a perfect extension solution for projector, plasma TV, LCD TV, LCD monitor, HDTV, and CRT, as well as in the area of Digital Signage broadcasting.

Key Features

1. ALL9600 can send VGA and Audio signal from Transmitter over single Cat5/5e/6 cable, and broadcast AV signal in Receiver. The standard maximum broadcasting distance is 300 meters.

2. Remote and local monitors and speakers can broadcast simultaneously

3. Use Cat5 Enhance UTP cable (350MHz bandwidth) for best video quality

4. Receiver build in video GAIN and FOCUS control to adjust the video quality.

5. Software free, pure hardware design, support Plug & Play

6. Support VGA, SVGA, XGA, TFT_LCD, LCD TV, PDP, Projector with DDC2B function

7. Transmitter and Receiver build with LEDs to indicate system status

8. Stackable capacity to expand the AV broadcasting

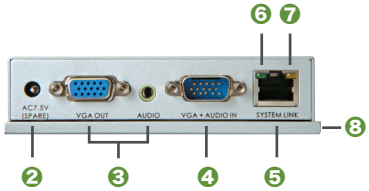
9. Provides magnetic pad and attachable metal plate for single-port unit to ease the installation

10. One-Port Transmitter ALL9600T:
    (1) Built in one set of AV inputs (VGA + Audio)
    (2) Built in one set of AV outputs (VGA + Audio) to monitor the AV signal broadcasted
    (3) Built in one RJ-45 port for system output which can be connected by Cat5/5e/6 cable and send signal to System Receiver
    (4) Take the power from USB or optional power adaptor

11. Receiver ALL9600R::
    (1) Receive AV signal through RJ45 port, and with video GAIN and FOCUS control, you can adjust the video quality, the maximum supported extended VGA resolution and distance up to 2048x1536@300m
    (2) Built in one set of AV output (VGA + Audio) to monitor the AV signal

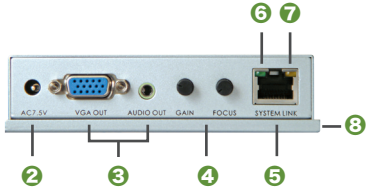
Panel Description

1. ALL9600T Single-Port AV Transmitter



1. Power Indicator
2. Power Jack
3. VGA+Audio Output
4. VGA+Audio+USB Power Input
5. RJ-45 AV Output
6. H. Sync Activity
7. V. Sync Activity
8. Magnetic Pad

2. ALL9600R Single-Port AV Receiver



1. Power Indicator
2. Power Jack
3. VGA+Audio Output
4. Video Control
5. RJ-45 AV Output
6. H. Sync Activity
7. V. Sync Activity
8. Magnetic Pad

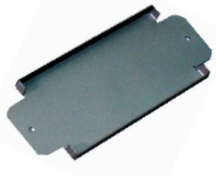
3. Cable and Accessories

CBK1510AU 3-in-1 cable for ALL9600T

Installation and Operation

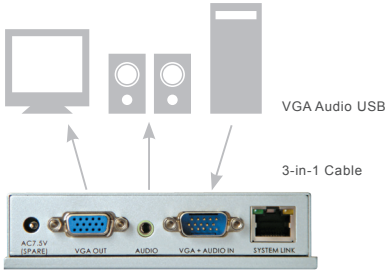
1. ALL9600T Single-Port Transmitter Installation:

(1) Site Selection: In your first time installation, place Transmitter near the PC or AV devices (Audio and Video outputs); you can use magnetic pad to attach the unit on metal plane (Ex. PC / Server Enclosure) or use attachable rack mounting kit to fix the unit on selected area by screw or nail.



Unit attached with Rack Mounting Kit and the Rack Mounting Kit

(2) Connecting Monitor and Speaker: Take a 3-in-1 cable (VGA + Audio + USB Power) to connect the signal from your AV device to the "VGA+AUDIO IN" port of Transmitter box and then connect monitor and speaker to the "VGA OUT" and "AUDIO" ports. The Transmitter can take the power through the USB port or if you are using DVD Player or other device without USB port, you can plug optional power adaptor (AC7.5V, 1A).



One-Port Transmitter

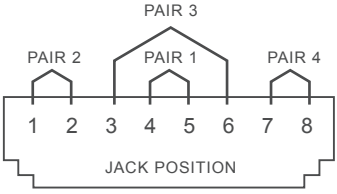
Installation Diagram of System Transmitter ALL9600T

(3) Function Test: Turn on your AV device, the POWER LED should turn on green to indicate the POWER ON status and the LEDs above RJ-45 will blink before VGA signal is turned ON and remain ON after VGA signal is turned ON.

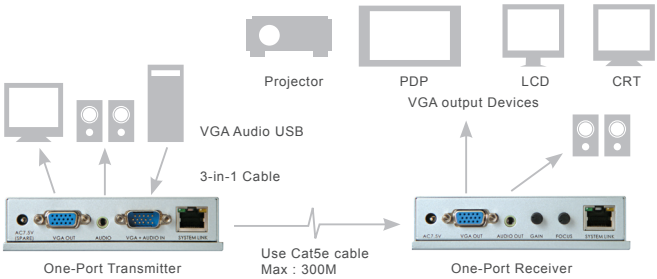
2. Receiver ALL9600R installation and UTP Connection

(1) Site Selection: Please place Receiver in an appropriate place and have the UTP cable settled for later connection.
(2) Power Up: Plug power adapter to the Receiver and connect monitor and speaker to the VGA OUT and AUDIO port. The power LED will turn on green to indicate the POWER ON status.
(3) Selection of UTP Cable: For best VGA resolution, please use Cat5 Enhanced cable (350MHz bandwidth) for connection, please note that the maximum extended length of one section should not exceed 300 meters. The connector must be made by 568B/568B type.

The EIA/TIA defination of 568B in the pin assignment is
(1) orange white, (2) orange, (3) green white, (4) blue,
(5) blue white, (6) green, (7) brown white, and (8) brown



(4) Connect UTP Cable: Plug two ends of UTP cable to Transmitter and Receiver's RJ45 UTP link ports, the Receiver's connected monitor and speaker should work now. You can adjust the FOCUS and GAIN control of Receiver to have the best VGA display.



Installation Diagram of Receiver ALL9600R

(5) Function Test: After above installation, you will be able to broadcast the AV signal to Receiver's connected monitor and speaker.

(6) Problem and Solving: If you find unstable image or audio problems after installation, please confirm following list or contact your direct vendor for further assistance:

a. Check if PC's VGA resolution and frequency over the limit of monitor display, if so, please change the VGA configuration from Windows Control panel.

b. Try to connect Monitor and speaker directly to a PC, and ensure the basic function of these devices.

c. When using LCD or same type monitor, there might have some image offset or blinking, please adjust the position, clock or phase of the LCD monitor, or simply press Auto Adjust / Tune to have a better image solution.

3. Other Integration and Application

Please contact your local dealer or vender for further information.

Specification

Spec	AV Transceiver	AV Receiver
Model	ALL9600T	ALL9600R
Description	1 Port Transmitter	1 Port Receiver
AV INPUT	AV x 1	RJ45 x 1
AV OUTPUT	AV x 1, RJ45 x1	AV x 1
Video CTRL	-	Video Gain and Focus
LED	Two Color LEDs	
Video Quality	Maximum VGA Resolution and Distance : 2048 x 1536@300m	
Dimension (LxWxH)	62 x113 x 29	
Power Consumption	USB DV5V Power or AC 7.5V 250mA	DC 7.5V, 250mA
Environmental Condition	• Operation Temp.: 0~50˚C • Storage Temp.: -20~60˚C • Humidity: 10~90%	

Order Information

Order Details	Part Number	Remark
One-Port ALL9600 AV Transmitter	ALL9600T	AVU Cable x 1, Rack-mount Kit x 1
One-Port ALL9600 AV Receiver	ALL9600R	With AC7.5V Power Adaptor x 1, Rack-mount Kit x 1

Remarks

(1) Before operating this system, please read operation manual carefully.
(2) Please use correct power adapter and use high quality cable for optimum broadcasting.
(3) To prevent potential power damage, please don't use 2 -wire extension cord and ensure AC outlets at relative devices on the same electronic phase and have correct grounding.
(4) Limited Warranty :
   A. In no events shall the direct vendor's liability for direct or indirect, special, incidental or consequential damages, loss of profit, loss of business, or financial loss which may be caused by the use of the product exceeds the price paid for the product.
   B. The direct vendor makes no warranty or representation, expressed or implied with respect to the contents or use of this documentation, and especially disclaims its quality, performance, merchantability, or fitness for any particular purpose.
   C. The direct vendor also reserves the right to revise or update the product or documentation without obligation to notify any user of such revisions or updates. For further information, please contact your direct vendor.

Certificate of Test

WE HEREBY CERTIFY THAT:

Certificate No.: R06052501E-D01
ALLNET Deutshland GmbH
Maistrasse 2 82110 Germering GERMANY
VGA+AUDIO CAT5 MEDIA EXTENDER
ALL9600T, ALL9600R

CE

AND KEEPS ALL REQUIREMENTS ACCORDING THE FOLLOWING REGULATIONS

Test Standards:
EN 55022:1998+A1:2000+A2:2003: Class B ,
EN 61000-3-2: 2002+ 2:2005, EN 61000-3-3:1995+A1:2001
EN 55024:1998+A1:2001+A2:2003
EN 61000-4-2:2001 EN 61000-4-3:2002 EN 61000-4-4:2004
EN 61000-4-5:2004 EN 61000-4-6:2001 EN 61000-4-11:2004

IS IN COMPLIANCE TO THE EUROPEAN COUNCIL DIRECTIVE 89/336/EEC AS AMENDED BY DIRECTIVES 92/31/EEC AND 93/68/EEC WITHIN CE MARKING REQUIREMENT.

Name of Laboratory：Matrix Test Laboratory
Site Location：2F, No 146, Jian Yi Rd, Chung-Ho City, Taipei Hsien, Taiwan, R.O.C.
Issue Date：July.26 , 2006
Approved by：

/ Managing Director

This certification shall not be reproduced without the written approval of the laboratory.
The certification is valid only in accordance with the test report No. R06052501E-D01 . The confirmation is valid only if the product is manufactured in accordance with the test report.

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